Sanjay Satish Shekar

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Education

The University of Texas at Arlington **August 2022 – Present**
Masters of Science in Computer Science *CGPA: 4.00 / 4.00*
Courses: Artificial Intelligence, Cloud Computing and Big Data, Distributed Systems, Design and Analysis of Algorithms, Data Analysis and Modeling Techniques.

PES University **August 2014 – May 2018**
Bachelor of Science in Computer Science *CGPA: 8.06 / 10*
Specialized in Algorithms and Computing Models
Courses: Parallel Computing, Web Technologies, Machine Learning, Digital Image Processing.

Work Experience

Computer Science and Engineering at UTA **August 2023 – Present**
Graduate Teaching Assistant for Cloud Computing and Big Data
- Set up the environments to execute Hadoop, Spark, Pig, and Hive projects for the course.
- Assessed and supervised examinations, led comprehensive exam review sessions, and provided guidance to students in completing their project assignments.
- Provided valuable and insightful feedback to students through regular weekly office hours.

Infosys Limited **July 2018 – July 2022**
Specialist Programmer
- Developed an interactive chatbot prototype with **Amazon Lex** using Lambda to provide order-related information and help users navigate through the app.
- Provided **REST APIs** to automate the process of downloading service-related loggers with Time-based OTP.
- Built a system tasked with analysing and documenting errors generated by services with the error count, description and other details such as the datacenter and creating an issue tracker for the same.
- Developed a tool to automate the process of validating different flows and placing orders for a service.
- Developed a microservice-based app to track users and restrict their entry into unauthorized areas using RFID tags.

Projects

Big Data Analytics | *Hadoop, Spark TensorFlow* **March 2023**
- Implemented Page Rank Algorithm using TensorFlow for a distributed environment setup.
- Evaluated the relationship between word usage and heart disease mortality rate using Spark.

RealtimeDataAnalytics | *React, Spring, MongoDB* **September 2020**
- Implemented REST APIs to handle real-time order-related data in SpringBoot.
- Implemented front-end in React using redux and other libraries to provide a graphical representation.

Static Reflection in C++ | *C++, Clang, LLVM* **May 2018**
- Implemented library `std::reflexpr` to enable the exposure of static reflection for the developer.
- Implemented underlying compiler intrinsic APIs `__reflection_intrinsic` for the reflection libraries.
- Implemented 'for constexpr' for unrolling of a range based for loop.

Technical Skills

Languages: Java, Python, C, JavaScript, Docker, C++, Go lang, PHP, Scala, Kubernetes
AWS: Lex, Lambda, S3, EC2, DynamoDB
Big Data Tools: Hadoop, Spark, Pig, Spark-SQL
Development Frameworks: Spring boot, Flask, Django, Node.js
Testing tools and Frameworks: JUnit, Mockito, Jenkins
Databases: MongoDB, MySQL, PostgreSQL, Cassandra
Monitoring Frameworks: Splunk
Developer Tools: VS Code, Eclipse, Intellij
Misc Tools: git, MS Office Suite, Websphere, Maven, Shell Scripting, Apache Tomcat

Awards/Achievements

- Won the **Rise Glory FY21-H1: 'Be the Navigator to Client - Best Project/Solution'** award from Infosys for the project RealtimeOrderAnalytics dashboard.
- Won the '**Best Student Project Award**' for the year 2018 from **AMD India** for the project **Static Reflection in C++**.